

Figure 8

Typical Bank Stabilization Cross Section Wildcat & Kokomo Creeks (OU3)
Continental Steel Superfund Site Kokomo, Indiana

Appendix A Ecological and Hydrological Investigation

Due to its size and because it has not changed since the February 2004 version of the Wildcat and Kokomo Creeks Basis of Design, Appendix A is not being reissued with this document.

Appendix B Creek Sediment Evaluation Documentation

Due to its size and because it has not changed since the February 2004 version of the Wildcat and Kokomo Creeks Basis of Design, Appendix B is not being reissued with this document.

Appendix C **Dredge Information**

'AMPHIBIOUS' DREDGE



GENERAL PRELIMINARY SPECIFICATIONS

Pontoon Construction

High Strength, Low Alloy, Weathering Cor-Ten plate steel is used in the fabrication of the Wilco pontoons. Cor-Ten steel has 5 to 8 times the atmospheric corrosion resistance and 20% more tensile strength than similar size A36 structural plate steel. Each pontoon has 5 bulkheads, providing 6 independent watertight compartments. The bottoms of the pontoons are reinforced for rough terrain operation.

Drive System

Power for the pontoon tracks is provided by the dredge's diesel engine and main hydraulic pumps. Hydraulic travel motor/brake combinations are mated to sealed planetary final drives to provide independent power to each pontoon track. The tracks are controlled electronically from the lever room of the dredge. Heavy duty 5-inch pitch marsh buggie track chain is used.

Track Cleats

Specially designed marine grade, extruded 6061-T6 aluminum alloy cleats with 2 HDMP wear pads are capable of supporting the pontoon and its payload.

Speed

Up to 2.5 mph on hard dry surface and up to 1.0 mph in water

Dredge Dimensions

Total Width	20' 6"
Total Length (Ladder Extended, Raised)	67'
Total Length (Ladder Retracted, Raised)	56'
Total Weight	95,000 lbs

Dredge Pump

Suction Diameter	8"
Discharge Diameter	8"

Dredge Digging Denths

Max digging angle (fwd./reverse)	60°
Minimum digging depth	3'
Maximum digging depth	15'

Dredge Cut Widths (@ max digging depths)

Swing Angle (off center)	-	-	. 25°
Max. Cut Width (Forwards)			24'
Max. Cut Width (Backwards))		9,

Prime Mover

All functions are powered by a Caterpillar 3126B industrial diesel engine, radiator cooled with residential grade silencer rated 275 bhp @ 2400 rpm. This engine is EPA & CARB Tier II compliant. The engine features Caterpillar premium gages, alarms, and shutdown systems.

Dredge Pump

The dredge pump features an 8" ID suction and an 8" ID discharge with a 19 ½" impeller size. The maximum particle clearance is 3 ½". The nominal pump capacity (water) 2000 gpm @ 185 TDH. The dredge pump drive utilizes a close coupled closed loop hydrostatic transmission.

Cutter Drive

The sealed planetary drive features an alloy cutter shaft and anti-friction bearings. The 24" inside diameter 5-blade basket cutter is equipped with replaceable cast serrated edges as a standard feature.

Nominal drive torque	34,450 in-lb
Cutter force	2,296 lb
Cutter force (per linear inch)	153 lb/in
Cutter speed	0-32
Nominal drive power	17.5 HP

Spuds

Three (3) tubular steel power up/power down construction

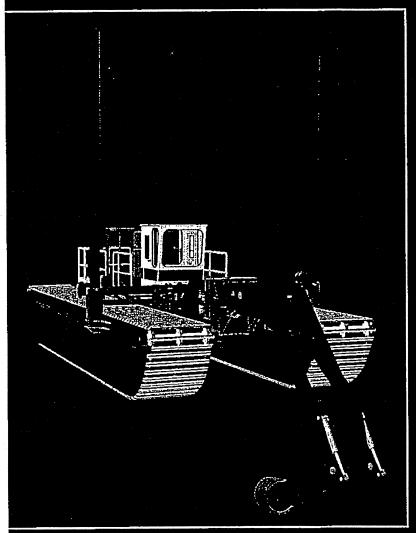
Diameter	8"
Length	24'
Weight each (estimated)	800 lb



☎ (985) 479-1355 www.dscdredge.com

'AMPHIBIOUS' DREDGE

A joint effort utilizing the leading manufacturers of amphibious equipment and dredges has evolved into a new product release the "Amphibious" Dredge!







Amphibious Hydraulic Undercarriages

This new concept product utilizes the knowledge of Wilco's amphibious undercarriages and DSC's dredge designs. As both companies are noted as the leaders in their industry, this seemed to be a perfect match to offer a new product that could be engineered, designed and manufactured by reliable and recognized companies. The prototype for this new Amphibious dredge features an 8" x 8" dredge pump configuration and has many of the DSC Moray dredge characteristics.

Appendix D

M-CACES Cost Estimate

TITLE PAGE 1

TIME 08:59:18

Wildcat&Kokomo Crk Sediment Remv Continental Steel Superfund Site (CSSS) Kokomo, Indiana Final Design Dated January 2006

Designed By: CH2M HILL Estimated By: CH2M HILL

Prepared By: CH2M HILL

Preparation Date: 10/24/05 Effective Date of Pricing: 10/24/05

Sales Tax: 0.00%

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U.S. Army Corps of Engineers
PROJECT CSSS27: Wildcat&Kokomo Crk Sediment Remv - Continental Steel Superfund
Wildcat & Kokomo Creek Sediment Removal

TIME 08:59:18

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SUMMARY PAGE	SUMMARY REPORTS	US

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No Backup Reports...

u 19 Jan 2006 f. Date 10/24/05 TAILED ESTIMATE

U.S. Army Corps of Engineers

PROJECT CSSS27; Wildcat&Kokomo Crk Sediment Remv - Continental Steel Superfund
Wildcat & Kokomo Creek Sediment Removal 01. Preconstruction Submittals

DETAIL PAGE

TIME 08:59:18

ConfirmSedimentSampling&Analysis Habitat Restoration Water Treatment System SedimentExcavation&Stabilization Near Bank Soil Excavation Mob Equip/Parking/Staging Areas Field Mgmt-Wildcat & Kokomo Crks Preconstruction Submittals Construct Employee Parking Area Maintain Haul Road/Access Road Fire Protection
Spill Prevent/Emergency Response
Site Vehicles Superintendent Field Engineer Home Office Engineering Support U-cross vane (small) Dewatering Add'nl Charge for Limited Access Submittals Safety Supply Allowance J-cross vane U-cross vane (large) W-welr Restoration/Revegetation Water Trimnt System Consumables Water Treatment System Rental Equipment Decontamination Access Road Mechanical Dredging Hydraulic Dredging Excavate Creek Bank Soil Equipment Storage Trailers/Rent Orange Safety Fencing Traffic Control Signage Traffic Cntrl-Trucks At Markland Mobilize Equipment Mechanic with Truck Fuel Storage Field Office/Utils/Porta-Johns Survey Team Project Manager Woven Coir Fiber Mat Mobilization/Demobilization 1.00 LS 1.00 LS 9.00 MO 1 9.00 MO 1.00 LS 1000.00 LF 9.00 MO 6479.00 CY 3001.00 CY 3000.00 LF 1.00 LS 4601.00 CY 1.00 LS QUANTY UOM UNIT COST TOTAL COST 86000 SY 56250 SY 6.00 EA 5.00 EA 10.00 EA 10000 CY 9.00 MO 1.00 LS 1.00 LS 1.00 9.00 1.00 1.00 EA ST WO WO 43.00 45025.00 25.00 258000.00 35000.00 12000.00 20000.00 12500.00 75000.00 7750.00 5000.00 1500.00 9700.00 5000.00 6200.00 1900.00 5000.00 5000.00 9000.00 6000.00 6700.00 5600.00 4000.00 2975.00 9200.00 5000.00 7500.00 9580.00 460,00 250.00 90.00 35.00 5.60 5.00 3.50 4.30

Labor

2000.00 HR

60.00

120,000

126,000 60,000 62,500

281,250 72,000

369,800

315,000

96,000

13,500

9,700

45,025 115,025 258,000 20,000

270,090 129,000 226,765

56,000 4,140

5,000 17,100 55,800 5,000 3,500

50,400 60,300

4,000 5,000

75,000

86,220 59,400 45,000 82,800 26,775 2,250

7,500 7,500

DETAIL PAGE 2

	Project Management Costs	Payment/Performance Bonds	Subcontractor Costs	Demobilize	Disposal	1
TOTAL W	O.B.	Ati Ati	(A) (B)	ט ש	Q Z H	
TOTAL Wildcat&Kokomo Crk Sediment Remv	Engineering Project Mgmt (10%) Contingency (15%)	Payment/Performance Bonds (3.5%)	Subcontractor G&A (11%) Subcontractor Fee (8%)	Project Closeout Demobilize Equipment	TSCA NON-TSCA Creek Bank Soil	1 4 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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1.00 EA 7074749.00 7,074,749	550564.00 825846.00	192697.00	508925.00 370127.00	23000.00	130,00 37.00 37.00	QUANTY UOM UNIT COST TOTAL COST
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U.S. Army Corps of Engineers

PROJECT CSSS27: Wildcat&Kokomo Crk Sediment Remv - Continental Steel Superfund

Wildcat & Kokomo Creek Sediment Removal

** PROJECT DIRECT SUMMARY - Task **

TOTAL	13	12	11	10	60	80	07	90	05	04	03	02	10
TOTAL Wildcat&Kokomo Crk Sediment Remv	Project Management Costs	Payment/Performance Bonds	Subcontractor Costs	Demobilize	Disposal	ConfirmSedimentSampling&Analysis	Habitat Restoration	Water Treatment System	SedimentExcavation&Stabilization	Near Bank Soil Excavation	Mob Equip/Parking/Staging Areas	Field Mgmt-Wildcat & Kokomo Crks	Preconstruction Submittals
1.00 EA	1.00 EA	1.00 EA	1.00 EA	1.00 EA	1.00 EA	1.00 EA	1.00 EA	1.00 EA	1.00 EA	1.00 EA	1.00 EA	1.00 EA	1.00 EA
EA	EA	ΕA	EΑ	ΕA	ΕA	Ä	EA	ΕA	ΕA	EA	ΕA	ΕA	ΕA
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7,074,749	1,376,410	192,697	879,052	73,000	1,230,500	120,000	971,550	434,200	1,063,905	56,000	165,540	491,895	20,000

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